

#### ABSTRACT

Methods of inhibiting metastasis of a CXCR4-expressing tumor cell in a mammal, which methods comprise administering to the mammal in an amount sufficient to inhibit metastasis of the tumor cell an antagonist of CXCR4, such as a polypeptide of the formula described herein, an antagonist of  $\beta_1$  integrin, such as an antibody that binds to  $\beta_1$ , an antagonist of CXCL12, such as an antibody that binds to CXCL12, or an antagonist of  $\alpha_4$  integrin, such as an antibody that binds to  $\alpha_4$ ; and a method of inhibiting growth of a CXCR4 expressing-tumor cell in a mammal, which method comprises administering to the tumor cell a polypeptide of the formula described herein.